

**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1-20 (Previously Cancelled).

21. (Once Amended) A method for detecting a binding reaction between a binding reagent and a binding target, comprising:

(A) contacting a sample suspected of containing a binding target with a substrate comprised of: (i) oppositely facing first and second major surfaces, (ii) a multiplicity of discrete channels extending through said substrate from said first major surface to said second major surface, (iii) at least a first binding reagent immobilized on the walls of at least a first group of said channels and (iv) at least a second binding reagent immobilized on the walls of at least a second group of said channels; and

(B) detecting binding between a binding target in the sample and at least one binding reagent on the walls of at least one group of discrete channels in the substrate, thereby detecting said binding reaction.

Claims 22-24 (Cancelled).

25. A method according to claim 21, wherein the first and second binding reagents differ from one another.

26. A method according to claim 21, wherein the first and second binding reagents bind different binding targets.

Claims 27-31 (Cancelled)

32. A method according to claim 21, wherein said substrate comprises groups of channels having areas of between about  $20 \mu\text{m}^2$  to about  $3 \times 10^6 \mu\text{m}^2$ .

33. A method according to claim 21, wherein there are between 400 and 4400 of said groups of discrete channels per  $\text{cm}^2$  of cross-sectional area of the substrate.

Claims 34-36 (Cancelled).

37. A method according to claim 21 wherein a detectable label is used to

detect the binding reaction.

38. A method according to claim 36, wherein said detectable label is selected from the group consisting of fluorescent, chemiluminescent and radioactive labels.

39. A method according to claim 38, wherein said detectable label is attached to said binding target.

Claims 40-82 (Cancelled)